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NEWS EXPRESS
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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=> S Electrospinning L1 1712 ELECTROSPINNING

=> s l1 and (fiber# or fibrous) L2 1438 L1 AND (FIBER# OR FIBROUS)

=> s 12 and composite#

L3 331 L2 AND COMPOSITE#

=> s 14 and diameter#

L5 101 L4 AND DIAMETER#

=> s 15 and (glycolide or lactide or dioxanone or caprolactone or (trimethylene carbonate) or (ethylene glycol) or lysine or (aliphatic polyester#) or polyglycolide or poly(w) (glycolide co lactide))

50 L5 AND (GLYCOLIDE OR LACTIDE OR DIOXANONE OR CAPROLACTONE OR (TRIMETHYLENE CARBONATE) OR (ETHYLENE GLYCOL) OR LYSINE OR (ALIP HATIC POLYESTER#) OR POLYGLYCOLIDE OR POLY(W) (GLYCOLIDE CO LACTI DE))

=> s 16 and (drug delivery)

1 FILES SEARCHED...

19 L6 AND (DRUG DELIVERY)

=> d 17 1-19 ibib abs

ANSWER 1 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2005:130890 USPATFULL

Polymeric nanofibers for tissue engineering and TITLE:

drug delivery

Laurencin, Cato T., Earlysville, VA, UNITED STATES INVENTOR (S):

Nair, Lakshmi Sreedharan, Charlottesville, VA, UNITED

STATES

Bhattacharyya, Subhabrata, Charlottesville, VA, UNITED

STATES

Allcock, Harry R., State College, PA, UNITED STATES Bender, Jared D., State College, PA, UNITED STATES Brown, Paul W., State College, PA, UNITED STATES Greish, Yaser E., State College, PA, UNITED STATES

NUMBER KIND DATE ------

PATENT INFORMATION: US 2005112349 A1 20050526 APPLICATION INFO.: US 2004-938493 A1 20040910 (10)

NUMBER DATE

-----PRIORITY INFORMATION: US 2003-501897P 20030910 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PATREA L. PABST, PABST PATENT GROUP LLP, 400 COLONY

SQUARE, SUITE 1200, ATLANTA, GA, 30361, US

11 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 604

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Polymeric nanofibers have been developed which are useful in a variety of medical and other applications, such as filtration devices, medical

prosthesis, scaffolds for tissue engineering, wound dressings,

controlled drug delivery systems, cosmetic skin

masks, and protective clothing. These can be formed of any of a variety of different polymers, either non-degradable or degradable. In a

preferred embodiment demonstrated in the following examples, nanofibers

are formed of biodegradable and non biodegradable

polyphosphazenes, their blends with other polyphosphazenes or with organic, inorganic/organometallic polymers as well as composite nanofibers of polyphosphazenes with nanosized particles such as

hydroxyapatites.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2004:298709 USPATFULL

TITLE: Direct injection of nano fibers and nano

fiber composites for biomedical

applications

INVENTOR(S): Jang, Bor Z., UNITED STATES

NUMBER KIND DATE -----PATENT INFORMATION: US 2004234571 A1 20041125 APPLICATION INFO.: US 2003-442561 A1 20030522 (10) DOCUMENT TYPE: Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

Bor Z Jang, 2902, 28 AVE, S.W., FARGO, ND, 58103

NUMBER OF CLAIMS:

26

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A process for injecting nanometer-scaled fibers directly into an intended body site of a patient. The process includes the steps of (a) preparing a precursor fluid to the fibers and (b) injecting the precursor fluid into the intended body site under the influence of an electrical field established between two electrodes to produce the nanometer-scaled fibers for forming a reinforcement preform. A polymer is then optionally injected into the intended body site to form a nano fiber-polymer composite structure. The composite structure may contain interconnected macro pores wherein cells can grow and proliferate. This composite scaffold is useful for tissue engineering. The injected nano fibers and composite structure may also be used as a means of controlled drug release or bone

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 19 USPATFULL on STN

reinforcement.

ACCESSION NUMBER:

2004:221774 USPATFULL

TITLE:

Plastic and elastic protein copolymers

INVENTOR(S):

Chaikof, Elliot Lorne, Atlanta, GA, UNITED STATES Nagapudi, Karthik, Woodbridge, NJ, UNITED STATES Brinkman, William Tumpane, Atlanta, GA, UNITED STATES Conticello, Vincent Paul, Decatur, GA, UNITED STATES McMillan, Robert Andrew, San Francisco, CA, UNITED

STATES

Wright, Elizabeth Rose, Los Angeles, GA, UNITED STATES Payne, Sonha Christine, Decatur, GA, UNITED STATES

PATENT ASSIGNEE(S):

Emory University, Atlanta, GA, UNITED STATES, 30322

20021122 (60)

(U.S. corporation)

	NUMBER	KIND DATE		
PATENT INFORMATION:	US 2004171545	A1	20040902	
APPLICATION INFO.:	US 2003-720025	A1	20031121	(10)

			NUMBER	DATE
PRIORITY	INFORMATION:	JP	2003-2417634 2003-98691 2003-2003236491	20030129 20030401 20030827

US 2002-428438P DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: GREENLEE WINNER AND SULLIVAN P C, 5370 MANHATTAN

CIRCLE, SUITE 201, BOULDER, CO, 80303

NUMBER OF CLAIMS: 76 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 41 Drawing Page(s)

LINE COUNT: 5529

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Synthetic protein copolymers with plastic and elastic properties, and methods producing the copolymers, are provided. For example, a BAB triblock copolymer comprises a hydrophilic block and one or more hydrophobic blocks. The mechanical properties of a gel, fiber, fiber network, or film form of the copolymer are varied by one

or more conditions before or after copolymer production. For example, a copolymer sequence can be varied before production, and one or more processing conditions such as solvent, pH, or temperature can be varied after production.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2004:203015 USPATFULL

TITLE: Biodegradable polymer device

Saltman, Adam, Westborough, MA, UNITED STATES INVENTOR (S):

Gaudette, Glenn, E. Setauket, NY, UNITED STATES Chen, Weiliam, Mount Sinai, NY, UNITED STATES

Jiang, Hongliang, South Setauket, NY, UNITED STATES

Yun, Yang Hyun, Huntington, NY, UNITED STATES

PATENT ASSIGNEE(S): The Research Foundation of State University of New York

(U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 2004156904 A1 20040812 US 2003-364877 A1 20030212 (10)

DOCUMENT TYPE: APPLICATION Utility FILE SEGMENT:

LEGAL REPRESENTATIVE: PITNEY HARDIN LLP, 7 TIMES SQUARE, NEW YORK, NY,

10036-7311

22 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

14 Drawing Page(s) 641 NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides a composition and method for preparing a biomedical device capable of delivering pharmaceutical or biomedical materials from a PEG-g-chitosan matrix. By combining a PEG-g-chitosan and a water insoluble polymer in a nonaqueous solvent, a matrix is obtained which can be used as a delivery vehicle for pharmaceuticals and

biomedical materials.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2004:154524 USPATFULL

Electrospun fibers and an apparatus therefor TITLE:

INVENTOR(S): Smith, Daniel J., Stow, OH, United States Reneker, Darrell H., Akron, OH, United States McManus, Albert T., San Antonio, TX, United States Schreuder-Gibson, Heidi L., Holliston, MA, United

States

Mello, Charlene, Rochester, MA, United States Sennett, Michael S., Sudbury, MA, United States

PATENT ASSIGNEE(S): The University of Akron, Akron, OH, United States (U.S.

corporation)

NUMBER KIND DATE -----US 6753454 B1 20040622 US 2000-571841 20000516 (9) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE

PRIORITY INFORMATION: US 1999-158677P 19991008 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Lucchesi, Nicholas D. ASSISTANT EXAMINER: Hamilton, Lalita M LEGAL REPRESENTATIVE: Roetzel & Andress

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 1225

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel fiber comprising a substantially homogeneous mixture of a hydrophilic polymer and a polymer which is at least weakly hydrophobic is disclosed. The fiber optionally contains a pH adjusting compound. A method of making the fiber comprises electrospinning fibers of the substantially homogeneous polymer solution. A method of treating a wound or other area of a patient requiring protection from contamination comprises electrospinning the substantially homogeneous polymer solution to form a dressing. An apparatus for electrospinning a wound dressing is discosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2004:144772 USPATFULL

TITLE: Native protein mimetic fibers, fiber

networks and fabrics for medical use

INVENTOR(S): Chaikof, Elliot L, Atlanta, GA, UNITED STATES

Conticello, Vincent, Atlanta, GA, UNITED STATES

Huang, Lei, Duluth, GA, UNITED STATES

Nagapudi, Karthik, Atlanta, GA, UNITED STATES

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Greenlee Winner and Sullivan, Suite 201, 5370 Manhattan

Circle, Boulder, CO, 80303

NUMBER OF CLAIMS: 20 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 29 Drawing Page(s)

LINE COUNT: 1951

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present disclosure provides spun fibers of proteins useful for the fibers, fiber networks and nonwoven fabrics for medical use, with these materials characterized by good biocompatibility properties (e.g., low tendency toward thromboses and inflammation when implanted into a human or animal). These materials can be fabricated from gelatin, collagen or elastin-mimetic proteins, functionalized proteins of the foregoing types, crosslinked functionalized proteins of the foregoing types, and there may be incorporated nonproteinaceous polymers and/or therapeutic proteins or other medicinal compounds. Additionally, there may be living cells colonized on the material of the present invention or living cells may be incorporated during the fabrication process. These materials can be used in medical applications including, without limitation, vascular grafts, reinforcement of injured tissue, wound healing, artificial organs and tissues, prosthetic heart valves and prosthetic ureters.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:100800 USPATFULL

TITLE: Biodegradable and/or bioabsorbable

fibrous articles and methods for using the

articles for medical applications

INVENTOR(S): Chu, Benjamin, Setauket, NY, UNITED STATES

> Hsiao, Benjamin S., Setauket, NY, UNITED STATES Fang, Dufei, Painted Post, NY, UNITED STATES Brathwaite, Collin, Setauket, NY, UNITED STATES

The Research Foundation of State University of New PATENT ASSIGNEE(S):

York. (U.S. corporation)

NUMBER KIND DATE -----

US 2004076661 A1 20040422 US 2003-719290 A1 20031121 (10) PATENT INFORMATION:

APPLICATION INFO.:

Division of Ser. No. US 2003-375329, filed on 27 Feb RELATED APPLN. INFO.: 2003, GRANTED, Pat. No. US 6689374 Division of Ser. No.

US 2001-859007, filed on 16 May 2001, GRANTED, Pat. No.

US 6685956

Utility DOCUMENT TYPE: FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HOFFMANN & BARON, LLP, 6900 JERICHO TURNPIKE, SYOSSET,

NY, 11791

NUMBER OF CLAIMS: 60 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 14 Drawing Page(s)

LINE COUNT: 1447

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ΔR Biodegradable and/or bioabsorable fibrous articles

and methods for using the articles in medical applications are

disclosed. The biodegradable and/or bioabsorable fibrous articles, which are formed by elctrospinning fibers of biodegradable and/or bioabsorbable

fiberizable material, comprise a composite (or asymmetric

composite) of different biodegradable and/or

bioabsorbable fibers. Articles having specific medical

uses include an adhesion-reducing barrier and a controlled delivery system. The methods include methods for reducing surgical adhesions, controlled delivery of a medicinal agent and providing controlled tissue

healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2004:67980 USPATFULL

TITLE: Coated stent and method for coating by treating an

electrospun covering with heat or chemicals

INVENTOR(S):

Greenhalgh, Skott E., Perkasie, PA, UNITED STATES Kiefer, Rob, Telford, PA, UNITED STATES Fox, Ann M., Doylestown, PA, UNITED STATES

NUMBER DATE KIND ------PATENT INFORMATION:

US 2004051201 A1 20040318 US 2002-313835 A1 20021206 (10) APPLICATION INFO.:

NUMBER DATE

-----PRIORITY INFORMATION: US 2002-372721P 20020411 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: INSKEEP & ASSOCIATES, INC., 26949 BOLAN LANE, PALOS

VERDES PENINSULA, CA, 90274

NUMBER OF CLAIMS: 116 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 2120

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A versatile covering process enabled through the identification and manipulation of a plurality of variables present in the electrospinning method of the present invention. By manipulating and controlling various identified variables, it is possible to use electrospinning to predictably produce thin materials having desirable characteristics. The fibers created by the electrospinning process have diameters averaging less than 100 micrometers. Proper manipulation of the identified variables ensures that these fibers are still wet upon contacting a target surface, thereby adhering with each other to form a cloth-like material and, if desired, adhering to the target surface to form a covering thereon. The extremely small size of these fibers,

and the resulting interstices therebetween, provides an effective vehicle for drug and radiation delivery, and forms an effective membrane

for use in fuel cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2003:324375 USPATFULL

TITLE: BIODEGRADABLE AND/OR BIOABSORBABLE

FIBROUS ARTICLES AND METHODS FOR USING THE

ARTICLES FOR MEDICAL APPLICATIONS

INVENTOR(S): Chu, Benjamin, Setauket, NY, UNITED STATES

Hsiao, Benjamin S., Setauket, NY, UNITED STATES Fang, Dufei, Painted Post, NY, UNITED STATES Brathwaite, Collin, Setauket, NY, UNITED STATES

PATENT ASSIGNEE(S): The Research Foundation at State University of New York

(U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 2003228350 A1 20031211 US 6689374 B2 20040210 US 2003-375329 A1 20030227 (10) APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 2001-859007, filed on 16 May

2001, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HOFFMANN & BARON, LLP, 6900 JERICHO TURNPIKE, SYOSSET,

NY, 11791

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Page(s)

LINE COUNT: 1347

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Biodegradable and/or bioabsorable fibrous articles AΒ and methods for using the articles in medical applications are disclosed. The biodegradable and/or bioabsorable fibrous articles, which are formed by elctrospinning fibers of biodegradable and/or bioabsorbable fiberizable material, comprise a composite (or asymmetric composite) of different biodegradable and/or bioabsorbable fibers. Articles having specific medical

uses include an adhesion-reducing barrier and a controlled delivery system. The methods include methods for reducing surgical adhesions, controlled delivery of a medicinal agent and providing controlled tissue

healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7ANSWER 10 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2003:299914 USPATFULL

Stent having electrospun covering and method TITLE: Greenhalgh, Skott E., Perkasie, PA, UNITED STATES INVENTOR(S):

Kiefer, Rob, Telford, PA, UNITED STATES

Schwartz, Robert S., Rochester, MN, UNITED STATES

KIND DATE NUMBER -----US 2003211135 A1 20031113 US 2002-313161 A1 20021206 (10) PATENT INFORMATION:

APPLICATION INFO.:

DATE NUMBER _____ **____**__

PRIORITY INFORMATION: US 2002-372721P 20020411 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

DRIVE, SUITE 700, NEWPORT BEACH, CA, 92660 LEGAL REPRESENTATIVE: OPPENHEIMER WOLFF & DONNELLY LLP, 840 NEWPORT CENTER

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

9 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2126

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A versatile covering process enabled through the identification and manipulation of a plurality of variables present in the electrospinning method of the present invention. By manipulating and controlling various identified variables, it is possible to use electrospinning to predictably produce thin materials having desirable characteristics. The fibers created by the electrospinning process have diameters averaging less than 100 micrometers. Proper manipulation of the identified variables ensures that these fibers are still wet upon contacting a target surface, thereby adhering with each other to form a cloth-like material and, if desired, adhering to the target surface to form a covering thereon. The extremely small size of these fibers, and the resulting interstices therebetween, provides an effective

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 11 OF 19 USPATFULL on STN

for use in fuel cells.

ACCESSION NUMBER: 2003:277584 USPATFULL

Covering and method using electrospinning of TITLE:

very small fibers

INVENTOR(S): Greenhalgh, Skott E., Perkasie, PA, UNITED STATES

Kiefer, Rob, Telford, PA, UNITED STATES

vehicle for drug and radiation delivery, and forms an effective membrane

Schwartz, Robert S., Rochester, MN, UNITED STATES

NUMBER KIND DATE US 2003195611 A1 20031016 US 2002-314086 A1 20021206 (10) PATENT INFORMATION:

APPLICATION INFO.:

NUMBER DATE -----

PRIORITY INFORMATION: US 2002-372721P 20020411 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION LEGAL REPRESENTATIVE: James W. Inskeep, Oppenheimer Wolff & Donnelly LLP,

Suite 700, 840 Newport Center Drive, Orange County, CA,

92660

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

116 1

NUMBER OF DRAWINGS:

11 Drawing Page(s)

LINE COUNT:

2126

AB A versatile covering process enabled through the identification and

manipulation of a plurality of variables present in the electrospinning method of the present invention. By manipulating and controlling various identified variables, it is possible to use electrospinning to predictably produce thin materials having

desirable characteristics. The fibers created by the electrospinning process have diameters averaging less

than 100 micrometers. Proper manipulation of the identified variables ensures that these fibers are still wet upon contacting a target surface, thereby adhering with each other to form a cloth-like material and, if desired, adhering to the target surface to form a covering thereon. The extremely small size of these fibers, and the resulting interstices therebetween, provides an effective vehicle for drug and radiation delivery, and forms an effective membrane for use in fuel cells.

ANSWER 12 OF 19 USPATFULL on STN L7

ACCESSION NUMBER:

2003:112581 USPATFULL

TITLE:

Foam composite for the repair or regeneration

INVENTOR(S):

Vyakarnam, Murty N., New York, NY, UNITED STATES Zimmerman, Mark C., East Brunswick, NJ, UNITED STATES Scopelianos, Angelo George, Whitehouse Station, NJ,

UNITED STATES

Chun, Iksoo, Flemington, NJ, UNITED STATES

Melican, Mora C., Bridgewater, NJ, UNITED STATES Bazilio, Clairene A., Plainfield, NJ, UNITED STATES Roller, Mark B., North Brunswick, NJ, UNITED STATES Gorky, David V., Flelmington, NJ, UNITED STATES

NUMBER	KIND	DATE

PATENT INFORMATION:

US 2003077311 A1

APPLICATION INFO.:

20030424 US 2001-938364 A1 20010824 (9)

RELATED APPLN. INFO.:

Division of Ser. No. US 1999-469118, filed on 21 Dec 1999, GRANTED, Pat. No. US 6306424 Continuation-in-part

of Ser. No. US 1999-345096, filed on 30 Jun 1999,

GRANTED, Pat. No. US 6333029

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

AUDLEY A. CIAMPORCERO JR., JOHNSON & JOHNSON, ONE

JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003

NUMBER OF CLAIMS:

61

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

15 Drawing Page(s)

LINE COUNT:

2270

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present patent describes a biocompatible composite made of AB a first fibrous layer attached to a three-dimensional inter-connected open cell porous foams that have a gradient in composition and/or microstructure through one or more directions. These composites can be made from blends of absorbable and biocompatible polymers. These biocompatible composites are particularly well suited to tissue engineering applications and can be designed to mimic tissue transition or interface zones.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2003:29878 USPATFULL

TITLE: Collagen or collagen-like peptide containing polymeric

matrices

INVENTOR(S): Fertala, Andrzej, Voorhees, NJ, UNITED STATES

Ko, Frank, Philadelphia, PA, UNITED STATES

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LICATLA & TYRRELL P.C., 66 E. MAIN STREET, MARLTON, NJ,

08053

NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
LINE COUNT: 580

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Tissue engineering scaffolds comprising collagen or a collagen-like

peptides incorporated within or between polymeric fibers and

methods for their production are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2002:312995 USPATFULL

TITLE: Apparatus and methods for **electrospinning**

polymeric fibers and membranes

INVENTOR(S): Chu, Benjamin, Setauket, NY, UNITED STATES

Hsiao, Benjamin S., Setauket, NY, UNITED STATES Fang, Dufei, Painted Post, NY, UNITED STATES

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HOFFMANN & BARON, LLP, 6900 JERICHO TURNPIKE, SYOSSET,

NY, 11791

NUMBER OF CLAIMS: 51 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 15 Drawing Page(s)

LINE COUNT: 1319

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

An apparatus and methods for electrospinning polymer fibers and membranes are described. The methods include in one aspect electrospinning a polymer fiber from a conducting fluid containing the polymer in the presence of a first electric field established between a conducting fluid introduction device and a ground source and modifying the first electric field with a second electric field to form a jet stream of the conducting fluid. In another aspect the methods include forming an electrospinning jet stream of the conducting fluid and electrically controlling the flow characteristics of the jet stream. In yet another aspect the methods include forming a plurality of electrospinning jet streams of

the conducting fluid and independently controlling the flow

characteristics of at least one of the jet streams. The apparatus for electrospinning includes a conducting fluid introduction device containing a plurality of electrospinning spinnerets for delivering the conducting fluid, a ground member positioned adjacent to the spinnerets, a support member disposed between the spinnerets and the ground member and movable to receive fibers formed from the conducting fluid, and a means for controlling the flow characteristics of conducting fluid from at least one spinneret independently from the flow characteristics of conducting fluid from another spinneret. An improved conducting fluid introduction device which includes a plurality of spinnerets, each for independently delivering a controlled quantity of conducting fluid at a controlled pressure or flow rate, the spinnerets being charged at an electric potential and being disposed relative to each other to normally interfere with the electric field produced by adjacent spinnerets, each of the spinnerets having a tip at which conducting fluid exits configured to have an electrostatic field strength at each tip stronger than the liquid surface tension at each of the tips is also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 15 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2002:308088 USPATFULL

TITLE: Biodegradable and/or bioabsorbable

fibrous articles and methods for using the

articles for medical applications

INVENTOR(S): Chu, Benjamin, Setauket, NY, UNITED STATES

Hsiao, Benjamin S., Setauket, NY, UNITED STATES Fang, Dufei, Painted Post, NY, UNITED STATES Brathwaite, Collin, Setauket, NY, UNITED STATES

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HOFFMANN & BARON, LLP, 6900 JERICHO TURNPIKE, SYOSSET,

NY, 11791

NUMBER OF CLAIMS: 113 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Page(s)

LINE COUNT: 1607

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Biodegradable** and/or bioabsorable **fibrous** articles and methods for using the articles in medical applications are

disclosed. The biodegradable and/or bioabsorable

fibrous articles, which are formed by elctrospinning

fibers of biodegradable and/or bioabsorbable

fiberizable material, comprise a composite (or asymmetric

composite) of different biodegradable and/or

bioabsorbable fibers. Articles having specific medical

uses include an adhesion-reducing barrier and a controlled delivery system. The methods include methods for reducing surgical adhesions, controlled delivery of a medicinal agent and providing controlled tissue

healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 19 USPATFULL on STN

ACCESSION NUMBER: 2001:184869 USPATFULL

TITLE: Foam composite for the repair or regeneration

of tissue

INVENTOR(S): Vyakarnam, Murty N., New York, NY, United States

Zimmerman, Mark C., East Brunswick, NJ, United States Scopelianos, Angelo George, Whitehouse Station, NJ,

United States

Chun, Iksoo, Flemington, NJ, United States Melican, Mora C., Bridgewater, NJ, United States Bazilio, Clairene A., Plainfield, NJ, United States Roller, Mark B., North Brunswick, NJ, United States

Gorky, David V., Flemington, NJ, United States

Ethicon, Inc., Somerville, NJ, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 6306424 B1 US 1999-469118 20011023 19991221 (9)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1999-345096, filed

on 30 Jun 1999

DOCUMENT TYPE:

Utility GRANTED

FILE SEGMENT: PRIMARY EXAMINER:

Acquah, Samuel A.

NUMBER OF CLAIMS:

39

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

2151

17 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present patent describes a biocompatible composite made of

a first fibrous layer attached to a three-dimensional

inter-connected open cell porous foams that have a gradient in

composition and/or microstructure through one or more directions. These

composites can be made from blends of absorbable and

biocompatible polymers. These biocompatible composites are

particularly well suited to tissue engineering applications and can be

designed to mimic tissue transition or interface zones.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7ANSWER 17 OF 19 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER:

2003:98602 EPFULL

DATA UPDATE DATE:

20040811

DATA UPDATE WEEK:

200433

TITLE (ENGLISH):

Plastic and elastic protein copolymers

TITLE (FRENCH):

Plastique et copolymeres de proteines elastiques

Kunststoff und elastische Proteincopolymere TITLE (GERMAN):

INVENTOR(S):

Chaikof, Elliot Lorne, 150 Wicksford Glen, Atlanta, GA 30350, US; Nagapudi, Karthik, 43B Woodbridge Terrace, Woodbridge, NJ 07095, US; Brinkman, William, 1116 Amsterdam Avenue, Atlanta, GA 30306, US; Conticello, Vincent Paul, 2473 Harrington Drive, Decatur, GA 30033, US; McMillan, Robert Andrew, 1039 Dolores Street, San Francisco, CA 94110, US; Wright, Elizabeth Rose, 123 South Figueroa St., Apt. 709, Los Angeles, CA 90012, US; Payne, Sonha Christine, 2473 Harrington Drive,

Decatur, GA 30033, US

PATENT APPLICANT(S):

Emory University, 1784 North Decatur Road, North

Decatur Building, Suite 130, Atlanta, Georgia 30322,

PATENT APPL. NUMBER:

3041243

AGENT:

Denness, James Edward, et al, Abel & Imray, 20 Red Lion

Street, London WC1R 4PQ, GB

AGENT NUMBER:

94731

LANGUAGE OF FILING: English LANGUAGE OF PUBL .:

English English

LANGUAGE OF PROCEDURE: LANGUAGE OF TITLE:

German; English; French

DOCUMENT TYPE:

Patent

PATENT INFO TYPE:

EPA8 Correction - reprint of title page of EPA-document

PATENT INFORMATION:

NUMBER KIND DATE -----EP 1422242 A8 20040811

DESIGNATED STATES:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI

LU MC NL PT RO SE SI SK TR

APPLICATION INFO.: PRIORITY INFO.:

EP 2003-257349 A 20031121 US 2002-428438P P 20021122 CA 2003-2417634 A 20030129 JP 2003-98691 A 20030401 AU 2003-236491 A 20030827

L7 ANSWER 18 OF 19

EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER:

2001:110164 EPFULL

UPDATE DATE PUBLICAT.: DATA UPDATE DATE:

20050601 20050601 200522

DATA UPDATE WEEK: TITLE (ENGLISH):

Biocompatible foam composite Mousse composite biocompatible

TITLE (FRENCH): TITLE (GERMAN):

Biovertraeglicher Verbundschaum

INVENTOR(S):

Vyakarnam, Murty N., 529 West 111th St. Apt. 42, NY 10025, US; Zimmerman, Mark C., 21 Agate Road, East Brunswick, NJ 08816, US; Scopelianos, Angelo George, 7 John Stevens Rd., Whitehouse Station, NJ 08889, US; Melican, Mora C., 2701 Johnson Circle, Bridgewater, NJ 08807, US; Bazilio, Clairene A., 82 Deborah Court, Plainfield, NJ 07062, US; Roller, Mark B., 9 Quince Place, North Brunswick, NJ 08902, US; Gorky, David V., 18 Copper Penny Rd., Flemington, NJ 08822, US; Chun, Iksoo, 253 Spruce Court, Flemington, NJ 08822, US

PATENT APPLICANT(S):

ETHICON, INC., (Ethicon Inc.), U.S. Route 22,

Somerville, New Jersey 08876, US

PATENT APPL. NUMBER:

291330

AGENT:

Mercer, Christopher Paul, et al, Carpmaels & Ransford

43, Bloomsbury Square, London WC1A 2RA, GB

AGENT NUMBER:

46611 LANGUAGE OF FILING: English LANGUAGE OF PUBL.: English LANGUAGE OF PROCEDURE: English

LANGUAGE OF TITLE:

German; English; French

DOCUMENT TYPE:

Patent

PATENT INFO TYPE:

EPA1 Application published with search report

PATENT INFORMATION:

DESIGNATED STATES:

APPLICATION INFO.: PRIORITY INFO.:

NUMBER KIND DATE -----EP 1234587 A1 20020828 DE FR GB IT EP 2001-301703 A 20010226 EP 2001-301703 A 20010226 *

ABEN

The present patent describes a biocompatible composite made of a first fibrous layer attached to a three-dimensional inter-connected open cell porous foams that have a gradient in composition and/or microstructure through one or more directions. These composites can be made from blends of absorbable and

biocompatible polymers. These biocompatible composites are particularly well suited to tissue engineering applications and can be designed to mimic tissue transition or interface zones.

L7 ANSWER 19 OF 19 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER: 2000:98020 EPFULL

UPDATE DATE PUBLICAT.: 20050223 DATA UPDATE DATE: 20050223 DATA UPDATE WEEK: 200508

TITLE (ENGLISH): ELECTROSPUN FIBERS AND AN APPARATUS THEREFOR

FIBRES FILEES ELECTRIQUEMENT ET APPAREIL CORRESPONDANT TITLE (FRENCH):

ELEKTROGESPONNENE FASERN UND VORRICHTUNG HIERZU TITLE (GERMAN): SMITH, Daniel, 2988 Ridgeline Trail, Stow, OH 44224, INVENTOR(S):

US; RENEKER, Darrell, 300 Hampshire Road, Akron, OH 44313, US; MCMANUS, Albert, 13830 Morningbluff Dr, San Antonio, TX 78216, US; SCHREUDER-GIBSON, Heidi, 1196 Highland Street, Holliston, MA 01746, US; MELLO, Charlene, 99 Bradford Lane, Rochester, MA 02770, US; SENNETT, Michael, 41 Stonebrook Rd., Sudbury, MA 01776, US; GIBSON, Phillip, 1196 Highland Street, Holliston,

MA 01746, US

The University of Akron, (Akron, The University of), PATENT APPLICANT(S):

302 E. Buchtel Avenue, Akron Ohio 44325, US

PATENT APPL. NUMBER:

Makovski, Priscilla Mary, et al, BARKER BRETTELL 138 AGENT:

Hagley Road, Edgbaston Birmingham B16 9PW, GB

AGENT NUMBER: 50261 LANGUAGE OF FILING: English LANGUAGE OF PUBL.: English LANGUAGE OF PROCEDURE: English

LANGUAGE OF TITLE: German; English; French

DOCUMENT TYPE: Patent

PATENT INFO TYPE: EPB1 Granted patent

PATENT INFORMATION: PATENT INFORMATION:

DATE NUMBER KIND NUMBER KIND -----EP 1220958 B1 20040303 -----

WO 2001027365 20010419

DESIGNATED STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT

SE

A 20001006 APPLICATION INFO.: EP 2000-972034

WO 2000-US27776 A 20001006 US 1999-158677P P 19991008 US 2000-571841 A 20000516 PRIORITY INFO.:

CITED NON PATENT LIT.: DZENIS, Y.A.: "Polymer Hybrid Nano/micro

composites" PROCEEDINGS OF THE AMERICAN SOCIETY FOR COMPOSITES- NINTH TECHNICAL CONFERENCE, 1994, pages

657-65, XP000978395;

BAUER JOSEPH A ET AL: "Evaluation of linear polyethyleneimine/nitric oxide adduct on wound repair:

Therapy versus toxicity." WOUND REPAIR AND

REGENERATION, vol. 6, no. 6, November 1998 (1998-11),

pages 569-577, XP000978321 ISSN: 1067-1927

CITED PATENT LIT .: EP 303496 А WO 9803267

Α US 4043331 Α US 4345414 Α